LIMA LOCOMOTIVE WORKS

INCORPORATED

LIMA, OHIO, U. S. A.

70-3 TON GEARED LOCOMOTIVE

PURCHASING DEPARTMENT

MATERIAL

Order No.	472 (3312) 1927	Engine Scheduled Out	
Order No.	19	" " "	
Order No.	19	" " "	
Order No.	19	" " "	
Order No.	19	" " "	
Order No.	19	" " "	
Order No.	19	" " "	
Order No.	19	" " "	
Order No.	19	" " "	
Order No.	19	" " "	

Date of Issue July 14 1927

Date Delivered to Purchasing Dept. 7-14 1927

Date Delivered to Stores Dept. 7-15 1927

ED-193

(3312) 472

472 3312

(3312) 472 70-3

INDEX TO CLASSIFICATION OF MATERIAL

DETAIL	Plates Page No.	Bars, Billets Shape, Page Number	Misc. and Specialties Page No.	Steel Castings Page No.	Mall. Castings Page No.
Ash Pan	1	4	6	10	14
Axle		4			
Bell and Details			6	10	14
Boiler and Details	1	4	6	10	
Bracket--Bottom and Steam				10	14
Brake Equipment and Details	1	4	6	10	14
Bumper and End Timber	1	4	6	10	
Cab and Details	1	4	6		14
Cocks and Valves			6-7		14
Crosshead				10	
Cylinder and Details	1			10	
Dome Casing	1				
Draw Gear and Coupler	1		7	10-11	14
Exhaust Details			7	11	
Fire Door and Brick			7		
Fire Extinguisher			8		
Frame and Details	1-2	4		11	
Hand Rail and Steps	2				14
Headlights and Details	2		7		14
Hose			8		
Injector and Feed Water			8		14
Lagging and Jacket	2	4	8		15
Link Motion				11	
Lubricator and Oil Cups	2		8		15
Oil Burner and Details	2		8		
Pilot and Snow Plow	2		8		
Pipe Fittings			8		15
Piston Rod Packing			8		
Plugs and Details				11	
Reverse Lever and Details	2			11	15
Running Board and Bracket	2		8	11	
Rods		5			
Sand Box and Details	3		9		15
Shaft, Collars and Couplings		5	9	12	
Smoke Box and Stack	3	5	9	12	15
Springs			8-9		
St. Gauge, Saf. Val. and Turret	3		9	12	15
Steam Pipes				12	
Superheater and Details	3		9		
Tank Cock			9		15
Tender Frame	3	5		12	
Tender Tank	3	5		13	
Tender Fuel Bunk	3	5			
" Oil Tank	3	5			
Throttle and Dry Pipe	3			13	15
Tools			9	13	15
Trucks and Details	3	5		13	15
Valves			9	13	
Wheels and Tires		5	9	13	
Whistle			9	13	15

ADDITIONS AND CHANGES AFTER ISSUE OF BOOK

ADDITIONS

DATE	PAGE	ITEMS	CHECK
7-15-27	9	51	ED
7-18-27	5	26-27-32-33-34	✓ "
" " "	3	39-40-41	✓ "
" 19-27	9	11	✓ "
7-19-27	10	46-47	✓ "
" " "	12	55-39-41	✓ "
7-22-27	11	31	✓ "
7-23-27	12	57	✓ "
" " "	8	40-55	✓ "
" " "	9	47-48	✓ "
" " "	8	4-7	✓ "
7-29-27	3	17-18-21 TO 24-33	✓ "
" " "	4	2-3-4-30 TO 34	✓ "
" " "	9	31-32	✓ "
" " "	6	32-33-34-2	✓ "
" 30 "	2	49	✓ "
8-1-27	8	24	✓ "
" 6-27	6	27-28	✓ "
" " "	10	16	✓ "
" " "	7	45-46	✓ "
8-9-27	8	14 TO 17	✓ "
8-11-"	2	54	✓ "
8-18-27	7	23	✓ "
8-22-27	11	23	✓ "
9-8-27	13	10-11	✓ "
9-13-27	7	26-29	"
9-21-27	6	57	"

ADDITIONS

DATE	PAGE	ITEMS	CHECK

CHANGES

DATE	PAGE	ITEMS	CHECK
7-19-27	10	52	✓ ED
7-27-27	1	35	✓ "
8-2-27	9	31-32	✓ S
8-3-27	5	27-33	✓ ED.
" 5 "	7	6	✓ "
" 6 "	10	7	✓ "
" " "	6	27-28	✓ "
8-10-27	5	9	✓ "
8-15-27	6	52-56	✓ "
" " "	7	5	✓ "
" " "	1	59	✓ "
8-16-27	2	54	✓ "
8-24-27	2	54	✓ "
" " "	6	34	✓ "
9-1-27	6	55	✓ "
9-13-27	13	10-11	S
9-13-27	6	52-55-56	ED.
" " "	7	5	"

PLATES

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
			Group 10—Ash Pan						
0		1 SET	~~COAL~~ OIL Pan Plates	10 M O 5048					
			Group 13—Boiler						
0		1 SET	Boiler Plates	13 M.O. 5077 (TO CONFORM TO THE LAWS OF BRITISH COLUMBIA.)					
			" Gusset Plates	FOR FUTURE NEW WORK & REPAIR BOILERS USE					
			" " "	13 MO 5101 12-15-45.					
			" " "						
			" " "						
			Group 20—Brake Equipment						
			Brake Cyl. Bracket						
			" " "						
			" " "						
			Group 21—Bumpers						
			Group 22—Cab						
0		1 SET	Cab Plates	22 M.O. 5025					
			Group 23—Cab Details						
			Cab Saddle Plate						
			" Joint "						
			" Ventilator Plate						
0		1	" " Cover	27½" x 30" #10 TANK STEEL	√				
			Group 32—Cylinder Details						
		—	Cyl. Head Casing						
0		3	St. Chest "	17" DIA. ~~⅛~~ 3/16" SOFT STEEL	√				
			Group 36—Dome						
0		1	Dome Casing Shell	#14 x 34" x 110" } SOFT STEEL	√				
0		1	" " Top	3/16 x 52" DIA. } SOFT STEEL	√				
		—	" " Flow Bowl						
			Group 37—Drawgear						
		—	Drawgear Shims						
0		2	" Tie Plate	¾" x 12" x 25" TANK STEEL	√				
		—	" " "						
		—	" Carrier Plate						
0		2	" " Bolt Liner	½" x 4" x 40" TANK STEEL	√				
0		2	FRAME REINFORCING PLATE	1" x 13" x 12'-11" LONG, TANK STEEL	√				
			Group 48—Frame and Details						
0		1	Frame Plate—Right	¾" x 40" x 34'-0" LONG. } TANK STEEL	√				
0		1	" " —Left	⅝" x 40" x 34'-0" "	√				
0		1	" Reinforcing Plate	½" x 31" x 50½" "	√				
0		1	" " "	½" x 31" x 60½" "	√				
0		1	" ~~Spreader~~ " "	½" x 16" x 60½" "	√				
0		1	" " "	½" x 16" x 50½" "	√				
0		1	" " "	¾" x 7" x 10'-0" "	√				

PLATES

	Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Description	Special Material Spec. No.	Special Material Date Accepted	Ordered From	Pur. Order No.	Pur. Order Date
1				**Group 48—Frame & Det. Con't**						
2	0		2	Frame Liner Plate	$\frac{1}{2}$" x 7" x 31" TANK STEEL		✓			
3			X	" " "	X X X					
4				" " "						
5				" " "						
6				" " "						
7				" " "						
8										
9			—	FURNACE BEARER PLATE ~~Expansion Plate~~	$\frac{1}{2}$ x 14$\frac{1}{2}$" x 48" TANK STEEL					
10			—	" "						
11										
12				**Group 53—Hand Rail & Steps**						
13				Cab Step						
14				" "						
15				" "						
16				" "						
17										
18				**Group 54—Headlights**						
19	0		1	Headlight Bracket	$\frac{5}{16}$ x 17$\frac{1}{2}$" x 26$\frac{1}{2}$" } TANK STEEL		✓			
20	0		1	" Shelf	$\frac{1}{8}$" x 16" x 26"		✓			
21	0		1	" "	$\frac{1}{8}$" x 16" x 26"		✓			
22			—	Generator Bracket						
23	0		1	" Shelf	$\frac{1}{4}$" x 15$\frac{1}{2}$" x 18" TANK STEEL		✓			
24										
25				**Group 57—Lagging & Jacket**						
26	0		5	Jacket—Boiler	30 x 60" } #22 B.W.G. POLISHED ~~[illegible]~~ STEEL		✓			
27	0		8	" — "	30" x 72"		✓			
28	0		2	" — "	30" x 84"		✓			
29	0		2	" — "	30" x 96"		✓			
30				" — "			✓			
31				" Band						
32				" —Cylinder						
33										
34	0		1	Cylinder Hood	#16 - 36" x 87$\frac{1}{2}$" PICKLED STEEL		✓			
35	0		1	" "	#16 - 36" x 81" " "		✓			
36										
37				**Group 59—Oil Cups & Lub't'n**						
38			—	Oil-Can Shelf						
39										
40	0'		1	**Group 60—Oil Burner**	3" VON BODEN					
41				Oil Heater Jacket						
42				" " Support						
43										
44				**Group 62—Pilot & Snow Plow**						
45			—	Snow Plow						
46			—	" "						
47										
48				**Group 68—Reverse Lever**						
49	0		1	Reverse Lever Quad. Plate	$\frac{3}{8}$" x 24$\frac{1}{4}$" x 23$\frac{1}{2}$" TANK STEEL					
50				" " " Bracket						
51				" " " "						
52										
53				**Group 71—Running Boards**						
54	0		1 SET	Running Board DECKING	71 M.O. 5018-#B					
55				" " Bracket						
56				" " "						
57				" " "						
58				" " "						
59										

PLATES

Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Description	Special Material Spec. No.	Special Material Date Accepted	Ordered From	Pur. Order No.	Pur. Order Date
			Group 73—Sand Box						
0		1	Sand Box Top—Front	45" Dia. } 3/16" Soft Steel		✓			
0		1	" " Shell "	13" × 89½"		✓			
0		2	Sand Box Plate—Rear	35" × 70" } #12 Tank Steel		✓			
0		1	" " " — "	8½" × 56½"		✓			
0		1	" " " — "	8½" × 60"		✓			
0		1	Sand Box Plate—Flue Sander	30" × 97½" } #10 Tank Steel		✓			
0		2	" " " — " "	18" × 40"		✓			
0		1	" " " — " "	10" × 10"		✓			
			Group 75—Smoke Box & Stack						
0		1	Smoke Box Front	½" × 51½" Dia. } Flange Steel		✓			
0		1	" " Door	3/8" × 37" Dia.		✓			
0		1	Deflector Plate	10" × 37½" } 3/16 Tank Steel		✓			
0		1	" "	24" × 50"		✓			
		—	" "						
0		1	Draft Pipe	15½" × 37" } #10 Tank Steel		✓			
0		1	" "	12" × 58"		✓			
0		1	" "	18½" × 31"		✓			
0		1	" "	12" × 46		✓			
		—	Smoke Stack Plates						
			Group 78-St. Ga., S. Val. & Tur.						
		—	Auxiliary Turret Casing						
			Group 81—Superheater						
		~~—~~	Superheater Damper	×					
0		2	" Pipe Jacket	30" × 60" × #22 Pickled Steel		✓			
			Group 83—Tank Engine						
0		2	Fuel Bunk Plates	3/16 × 60½" × 63½" } Tank Steel					
0		2	" " "	3/16 × 24" × 63½"					
		1	" " "	3/16 × 101½" × 54"					
			Group 85—Tender Frame						
		2		½ × 12" × 96½"		✓			
0		1	Tender Frame Brace Plate	½ × 24" × 96½"		✓			
		1		½ × 15" × 96½		✓			
0		1	" " " "	¾ × 12" × 44"		✓			
0		1	" " " "	1" × 14¼ × 96½"		✓			
			~~Group 88—Tender Tank~~						
0		1 Set	Tank Plates—Water	M.D. 2651-A.		✓			
0		1	" Funnel	13" × 83½" } 3/16" Tank Steel		✓			
0		1	" " Cover	22" × 34"		✓			
0		1 Set	" Plates—Oil	M.D. 2649-A.		✓			
0		1	" Shoveling Sheet	33" × 129" } 3/16" Tank Steel		✓			
0		1	" " "	33" × 129"		✓			
0		1	Oil Tank Funnel (" ~~Coal Gate~~)	¼" × 10½" × 59" } Tank Steel		✓			
0		1	" " " Cover (~~Group 91—Trottle & Dry Pipe~~)	3/8" × 23" Dia.		✓			
		—	Throttle Baffle Plate						
		—	" " "						
			Group 93—Truck & Details						
0		6	Truck Bolster Plate	69¾" } 3/8" × 11¾" Tank Steel		✓			
0		3	" " "	83⅞"		✓			
0		3	" " "	90"		✓			
0		12	Truck Gear Cover	9½" × 45" } [1/8"] Tank Steel		✓			
0		24	" " "	13" × 17½"		✓			

BARS, SHAPES AND BILLETS

Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Description	Special Material Spec. No.	Special Material Date Accepted	Ordered From	Pur. Order No.	Pur. Order Date
			Group 10—Ash Pan						
0		16 Ft.	Angle	1/2"x3"x3 1/2"					
0		38 Ft.	"	1/4"x2"x2"					
0		8 Ft.		1/2"x3"x3"					
		—	Bar Iron						
			Group 11—Axle						
0		6	Axle Billet	8"x8"x975#					
			Group 14—Boiler Details						
		—	Angles						
0		1	Brace Tee	6"x1"x5 1/4"x1 1/4"-12'-0" Long.					
			Crown Bar						
			" "						
			" "						
0		1 Set	Stay Bolt Iron	530 Ft. 15/16" Dia.					
0		1 "	" " "	343 Ft. 1" Dia.					
0		1 "	" " " —Hollow	143 Ft. 1" Dia. Hollow					
			Group 20—Brake Equipment						
0		6	Brake Beam	9"-25# Eye Beam 64" Long					
0		2	" Cyl. Bracket Channel	12"-30# Channel 66" "					
			Group 21—Bumper						
0		2	End Timber Channel	15"-33# Channel 102" Long.		✓			
		—	" " "						
			Group 22 & 23—Cab & Details						
0		1 Set	Cab Angle	100 Ft. 2"x2"x1/4"					
0		1 "	" "	25 Ft. 1 1/2"x1 1/2"x3/16					
0		1 "	" Beading	60 Ft. 1 1/4"x5/16" Half Oval					
0		1 "	" "	50 Ft. 1"x1/2" Half Round.					
0		1	" Saddle Angle	2"x2"x1/4"-48" Long.					
			Group 48—Frame and Details						
0		2	Frame—~~Right~~ Angle	3/4"x4"x6"-34'-0" Long.					
0		2	" —~~Left~~ "	3/4"x6"x6"-34'-4" "					
0		4	" Body Bolster	12"-30# Channel 66" Long.					
		2	" Spreader						
			" Brace						
0		2	" Angle	3/4"x6"x6"-13'-0"					
			" "						
			" "						
			" "						
			" "						
			" "						
			" "						
			Group 57—Lagging & Jacket						
0		27 Ft.	Cylinder Hood Angle	1 1/2"x1 1/2"x1/4"					
			Group 71—Running Board						
			Angle						
			"						
			"						
			Band						

BARS, SHAPES AND BILLETS

Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Description	Special Material Spec. No.	Special Material Date Accepted	Ordered From	Pur. Order No.	Pur. Order Date
			Group 72—Rods						
0		1	Billet—Rods	4" x 7" x 475#					
0		1	" — " Straps	4" x 5" x 350#					
			Group 74—Shafts						
0		1	Crank Shaft Billet	8 1/2 x 15 1/2 x 2550#					
0		1	Line Shaft—Front	84 1/4" x 5 3/8" DIA					
0		1	" " —No. 2	90" ~~84 1/2~~ x 5 3/8" "					
		—	" " —No. 3						
0		1	" " —Rear	84 7/8" x 5 3/8" DIA.					
			Group 75—Smoke Box & Stack						
		1	Angle—Deflector Plate	1/4" x 2" x 2" - 6'-0" LONG.					
		~~1~~	" —Netting	"					
		1	" —~~Stack~~ DEFLECTOR PLATE	1/4" x 2" x 3" - 55" LONG.					
		—	Stack Ring						
		—	" Beading						
			Group 83—Tender Tank						
0		95 FT.	Fuel Bunk Angle	2" x 2" x 1/4"					
0		40 FT.	" " Beading	1 1/4" x 5/16 HALF OVAL					
		—	" " Bar Iron—Wood Rack						
		—	" " " " — " "						
			Group 85—Tender Frame						
J		4	Frame—~~Front~~	12"-30# CHANNEL 12'-9" LONG.		✓			
0		4	" ~~—Sides~~	12"-30# " 34 1/2" x 3/4" "		✓			
			" —Bolster						
			" Brace Channel						
			" " "						
			" Channel—Rear						
0		4 FT.	" Angle	3/4" x 6" x 6"					
0		5 FT.	" "	1/2" x 3" x 3"					
0		4 FT.	" "	1/2" x 4" x 4"					
		—	" "						
		—	" "						
			Group 88—Tank Tender						
0		175 FT.	Tank Angle—Water	2" x 2" x 1/4"					
		—	" " — "						
0		50 FT.	" Beading— "	1 1/4" x 5/16 HALF OVAL					
		—	" Bar Iron—Wood Rack						
0		48 FT.	Tank Angle—Oil	2" x 2" x 1/4"					
0		5 FT.	" " —"	2" x 2" x 1/4"					
		—	" Beading— "						
		—	" Coal Gate Angle						
			Group 93—Truck & Details						
0		6	Bolster Channel	69 3/4" LONG. } 9"-25# CHANNEL		✓			
0		6	" "	90" " }		✓			
0		6	" "	69 3/4" " }		✓			
0		3	" "	83 7/8" " } 6"-15 1/2# CHANNEL		✓			
0		3	" "	90" " }		✓			
0		6	Tie Bar	2" x 4 1/2" x 108" SOFT STEEL					
0		4	" " Angle	1/2" x 4" x 4" - 77" LONG.					
			Group 95—Wheels & Tires						
0		12	Tire—Section 95 M.O. 500-A	36" O. D. 30" I. D. 5 1/2" Wide 3" Thick					

MISCELLANEOUS DETAILS AND SPECIALTIES

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
			Group 10—Ash Pan						
0		2	Hinge—Damper	4½ x 1¾ x 6" HALF BUTT					
		—	" —Cleaning Door						
			Group 12—Bell						
		—	Bell						
		—	" Ringer						
			Group 14—Boiler Details						
0		4	Flex. Bolts	30½" x 1⅛" DIA. } TATE STYLE DJ					
0		4	" "	30" x 1⅛" " } TATE STYLE DJ					
0		4	" "	29" x 1⅛" " } TATE STYLE DJ					
0		4	" "	27" x 1⅛" " } TATE STYLE DJ					
0		16	" " Sleeves	TATES STYLE H					
			" " "						
			" " "						
			" " Nuts						
			" " "						
0		16	" " Caps	TATES STYLE D					
		—	" " "						
0		97	Tubes	2" O. D. #12 B.W. Gauge 11 Ft. 1 In.					
0		15	Flues CD. 142 S 203	5⅜" O. D. #9 B.W. Gauge 11 Ft. 1½" In.					
0		97	Ferrules—Copper	2" O. D. 1/16" Thick 5/8 Wide					
0		15	" — "	4⅝ O. D. 1/16" Thick 5/8" Wide					
			Group 20—Brake Equipment						
0		1 SET	Brake—Air	20 M.O. 5019-B ~~[illegible]~~					
0		—	" —Trans. Air	~~[illegible]~~					
0		13	" —Shoes	(S) PAT. 20-8		✓			
0		3	" ROD CONNECTION	1½" TURNBUCKLES		✓			
			Group 21—Bumper						
0		2	End Timber	8" x 15½" x 105"		✓			
0		1	" "	8½" x 9¼" x 105"		✓			
0		1	" "	3½" ~~2¼"~~ x 8½" x 105"		✓			
		—	" "						
			End Timber Drawhead Blocks						
			Group 23—Cab Details						
		—	Curtain						
0		2	DOOR LOCKS	YALE NIGHT LOCKS - RIM LATCH.					
0		1 SET	"XX" CAB WINDOW GLASS ~~Hinge—Door~~	23 M.O. 5000					
		—	" —Window						
		—	" —Ventilator						
		—	Seat Cushion						
		—	Sliding Door Roller & Hangers						
		—	" " Track						
			Group 26—Cocks & Valves						
0		1	Valve—Air Pump	1¼ ANGLE ~~GLOBE~~ CRANE # 1811 ✓					
		—	" — " " Inter.						
0		1	" — " " Drain	¼" AIR COCK					
0		1	" —Blower AT ST. TURRET	1" ANGLE CRANE # ~~[illegible]~~ # 1813 ✓					
0		1	" —Brake	¾" ANGLE ~~GLOBE~~ CRANE # 1813 ✓					
		1	" — HOUSE BLOWER ~~Exhaust Drain~~	¾" GLOBE CRANE #4					
0		1	" — ~~Bell Ringer~~ BLOWER AT OIL TURRET	¾" GLOBE CRANE #4					
0		2	" —Check Pipe Drain	½" GLOBE-CRANE #4					

MISCELLANEOUS DETAILS AND SPECIALTIES

	Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Description	Special Material: Spec. No.	Special Material: Date Accepted	Ordered From	Pur. Order: No.	Pur. Order: Date
1				**Group 26—Cocks & Valves Con't**						
2	0		1	Valve—Exhaust Drain	1/2" Crane Globe #4 (lines 2–3)					
3	0		1	" —Fuel Sprinkler						
4	0		1	" — " " Drain	1/4" Air Cock					
5	0		1	" —Generator	1/2" ~~Globe~~ Angle Crane # ~~#~~ 1811 ✓					
6	0		2	" —Injector	1 1/2" Globe Crane # ~~1803~~ 1805 & 1 3/4" C.P. Union ✓					
7			—	" —Lubricator	← Furnished with Nathan Lubricator.					
8	0		1	" —Siphon	1 1/2" Angle Crane #1811 ✓					
9	0		1	" — " Drain	3/8" Air Cock					
10	0		1	" —Steam Gauge Cock	1/4" Cyl. Cock Lever Handle & 3/8" Copper Pipe Union					
11	0		1	" —Water Glass Drain	1/4" Crane Globe #4					
12	0		1	" —Steam Chest "	1/2" Crane Globe #4					
13	0		2	" —Air Sander	1/4" Globe Crane #4					
14	0		1	" —Oil Burner	1/2" " " "					
15	0		1	" —" Heater	1/2" " " "					
16	0		3	" —" " Drain	3/8" Air Cock					
17	0		1	" —" Tank Heater	1/2" Globe Crane #4 (lines 17–19)					
18	0		1	" —" Blow Back	1/2					
19	0		1	" —" Tank	1/2					
20	0		6	" —Cyl. Cock	3/4" Cutout Cock Without Handle Westinghouse #2233					
21	0		1	Blow-Off Cock	1 1/2" Crane					
22	0		1	~~Cylinder~~ Smoke Box Drain	1/2" Cut Out Cock.					
23	0		1	Drifting Valve	3/4" Globe-Crane #4					
24				**Group 27—Cocks & Val.** {Gauge, Water & Spec.						
25	0		3	Gauge Cocks	3/4 Nathan Type 272A1001 Except 3/4" P. Thd.					
26	0		1	Oil Pipe Valve	1 1/4" Globe Crane #4					
27	0		1	Water Gauge	#9 Reflex With Top & Bottom Gauge 9" Long.					
28	0		2	" " Cocks	3/4 Nathan					
29	0		1	Oil Tank Water Drain Valve	1 1/4 Globe Crane #4					
30				**Group 37—Drawgear**						
31			—	Draft Gear						
32										
33			—	Couplers	Knuckles—Face {Slotted / Solid					
34										
35			—	Coupler Clevis						
36										
37			—	Coupler Link						
38										
39				**Group 44—Exhaust Pipe**						
40	0		1	Exhaust Pipe	7" W.I. Pipe 20'-6" Long.					
41										
42				**Group 45—Fire Door & Brick**						
43			—	Fire Door						
44										
45	0		520	Fire Brick	9" x 4 1/2" x 2 1/2" Arch Lock #224					
46	0		8	" Clay	Sacks.					
47				**Group 54—Headlight & Lamps**						
48			—	Headlight—Oil						
49	0		2	" —Electric	16" Rd. Case Sunbeam #1016-A					
50			—	" —Acetylene						
51	0		1	" Generator	Sunbeam Turbo					
52			—	" Switches						
53										
54	0		1 Set	Headlight Equipment—Electric	54 M.D. 5004-B					
55										
56	0		2	Lamp—Cab	Dressel Electric					
57	0		1	" —Water Gauge	" "					
58			—	" —Marker						
59										

MISCELLANEOUS DETAILS AND SPECIALTIES

Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Description	Special Material Spec. No.	Special Material Date Accepted	Ordered From	Pur. Order No.	Pur. Order Date	
			Group 55—Inj. & Feed Water							
0		1	Injector—Right #8 NATHAN LIFTING	Connections—Steam 1 3/4" COPPER		✓				
		—	LEVER HANDLE MONITOR TYPE "88"	" —Water 2" IRON		✓				
			WITH EXT. HANDLE FOR OUTSIDE OF CAB	" —Delivery 2" "		✓				
0		1	Injector—Left #8 NATHAN LIFTING	" —Steam 1 3/4" COPPER	[illegible]	✓				
		—	LEVER HANDLE MONITOR TYPE "88"	" —Water 2" IRON		✓				
			WITH EXT. HANDLE FOR OUTSIDE OF CAB.	" —Delivery 2" "		✓				
		—	Feed Water Strainers							
		—	Inj. Check Valve							
0		2	" " " Flange	2" NATHAN TYPE 280-A TO NATHAN CO. #577				✓		
		—	" Stop "							
			Group 57—Lagging & Jacket							
0		60	Lagging—Boiler	1 3/4" x 6" x 42				✓		
0		120	" " ~~—Cylinder~~	1 1/4" x 6" x 42"				✓		
0		20	" " ~~Washout Plug Cover~~	1" x 6" x 30"				✓		
0		32	" "	7/8" x 3" x 24"				✓		
			Group 59—Lubrication							
0		3	Oil Cup—Crosshead Pin	#4 SPRING TOP				✓		
			" " — " Guide							
			" " —Crank Pin							
			" " — " Bearer							
0		1	Oil	SAMPLE CAN						
0		1	GREASE GUN ~~Grease Cup Bottom Bracket~~	ZERK-LARGE SIZE 1.3/4# NO. 1029						
0		1	Grease	SAMPLE CAN						
0		1	Lubricator—Cylinder	NATHAN 5 FEED 5 PINT. 1918 TYPE COMP. WITH ST. VALVE						(1" Male inlet and outlet for 1" copper Pipe) ✓ ✓
		—	" ~~—Air~~ Pump							
		—	" Checks							
0		1	" OIL PUMP	MANZEL 3 FEED 4 PINT PAINTED BLACK LEFT HAND RATCHET DRIVE REAR DISCHARGE		✓ ✓				For future order Right hand ratchet drive instead of Left hand. RBK.
			Group 60—~~Oil Burner~~							
0		1	OIL BURNER	3" VON BODEN		✓				
		—	**Group 62—Pilot & Snow Plow**							
			Group 63—Pipe Fittings							
		—	Fire Extinguisher							
		—	Hose—Fire							
0		2	" —Sander, Hand	1 5/8" x 24" WIRE BOUND				✓		
		—	" — " , "							
0		4	" — " , Air	1" x 32" WIRE BOUND						
0		1	" —Siphon	4" x 16'-0" LONG ENLARGED ENDS.			To 60.822 A 5032 ✓			
		—	" —Sprinkler							
0		2	" —Tank Connection	2 1/2" x 4'-6" WIRED SUCTION 2 1/2" I.D. SOFT ENDS.				✓		
		—	Pipe—Copper Branch	O. D. Thick Long						
0		3	" — " Tallow	1/2" O. D. .083" Thick 21'-0" Long				✓		
0		1	" — " Inj. Steam	1 3/4" O. D. .120 Thick 3'-6" Long				✓		
0		1	" — " Lub. "	1" O. D. .109" Thick 9'-0" Long				✓		
0		1	" — " Steam Gauge	3/8" O. D. .065 Thick 3'-0" Long				✓		
0		1	" — " Air "	1/2" O. D. .083 Thick 3'-0" Long				✓		
0		1	" —Dry	5" I.D. 5 1/2" O.D. 8'-0" LONG ST'L. TUBING						
0		1	" —Steam	5" I.D. 5 1/2" O.D. 13'-0" " W. I. PIPE						
0		1	" "	5" I.D. 5 1/2" O.D. 6'-0" ST'L. TUBING						
			Group 65—Piston & Rod							
0		9 SET	Piston Rod Packing	652 A 5154 (PAXTON & MITCHELL FOR SUPERHEATED STEAM)						
0		3	" " " Spring	#X311						
			Group 71—Running Boards							
		—	Running Boards							

MISCELLANEOUS DETAILS AND SPECIALTIES

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	DESCRIPTION	SPECIAL MATERIAL SPEC. No.	SPECIAL MATERIAL DATE ACCEPTED	ORDERED FROM	PUR. ORDER No.	PUR. ORDER DATE
			Group 73—Sand Box						
		—	Sanders—Air						
✓		1	Flue Sander Funnel	732 A 5033					
✓		1	" " Scoop	(732 A 5033)					
			Group 74—Shafts						
		—	Gear Rim—Cut Teeth						
		—	Pinion —" "						
		—	" —" "						
✓		24	STANDARD ZERK GREASE FITTING. $\frac{1}{8}$" PIPE THD'S. ~~Z-3-5A~~ Z-35A. FUTURE ENTER THIS Item Under Group #59						
			Group 75—Smoke Box & Stack						
		—	Smoke Box Netting						
		—	" " "						
		—	" " "						
		—	Stack Netting						
		—	" "						
			Group 76—Springs						
✓		2	Springs—Draft Gear	M.C.B. CLASS "G"					
			" —Truck Box						
✓		60	" — " Bolster	762 A 5003					
			Group 78-St. Ga., S. Val. & Tur.						
✓		1	Steam Gauge	$5\frac{1}{2}$ ASHCROFT BRASS RING.					
✓		2	Safety Valve CONSOLIDATED FORM "H" TYPE F.H.	Size 2" Open Set At 200#					
		—	" "	" ~~Muffled~~. Set At					
		—	" "	Connections, Male, ~~Female~~					
✓		1 SET	**Group 81—Superheater**	81 M.O. 5013 SUPERHEATER COMPLETE ~~TO BE ORDERED FROM~~					
✓		—	~~Superheater Header~~	~~THE SUPERHEATER CO. LTD. VIA CANADA SHIPPED IN BOND [illegible]~~					
		—	" Tubes						
		—	" Bands						
		—	" Supports						
		—	" Damper Cyl.						
			Group 82—Tank Valves						
✓		~~1~~	Tank Cock	~~$1\frac{1}{4}$" STOP COCK~~					
			" Coal Gate Hinge						
			Group 92—Tools						
			Equipment Sheet						
✓		1 SET	Wrench List	92 M.O. 5000 ~~C~~					
			Wrecking Frogs						
			Group 94—Valves						
✓		2 LBS.	Valve Stem Packing	VULCABESTON $1\frac{5}{16}$" I.D. $2\frac{1}{8}$" O.D. FOR SUPERHEATED STEAM.					
		—	" " " Spring						
		—	Valve Plate Spring						
✓		3	PISTON VALVE	COMPLETE TO CD. 943 A 5004 (ORDER FROM H.G. HAMMETT					
		—	Valve—Balance Slide						
			Group 95—Wheels & Tires						
		—	Wheels—Chilled						
			Group 96—Whistle						
✓		1	Whistle	5" 5 CHAMBER C.I. CHIME					

ANNEALED STEEL CASTINGS

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
			Group 10—Ash Pan				
		—	Ash Pan Hoppers				
		—	" " Slides				
			Group 12—Bell				
0		1	Bell Tongue	12-35	✓		
0		[illegible]	" Crank	[illegible]			
			Group 14—Boiler Details				
		—	Boiler Brace Roof Tees				
		—	" " Crown "				
		—	" Crown Bar Lugs				
0		1	Mud Ring	14-248	✓		
			Group 18—Brackets				
0		1	Bracket, Bottom	18-475	✓		
0		4	" Crank Box Caps	18-32			
		—	" Pad, Steam Bracket				
			Group 20—Brake Equipment				
0		1	Brake—Air Pump Bracket	20-614	✓		
0		4	" Beam Safety Lug	20-494	✓		
0		6	" " Fulcrum	20-87	✓		
0		8	" Hanger Lugs	20-632	✓		
0		12	" Heads	20-79	✓		
		—	" Lever Fulcrum				
		—	" Rod Jaw				
0		2	" Reservoir Bracket	20-111	✓		
		—	" Valve Bracket				
		—	" Strut				
		—	" "				
			Group 21—Bumper				
		—	Bumper—Front				
		—	" —Rear				
			Group 30—Crosshead				
0		3	Crosshead	30-15	✓		
			Group 31—Cylinder				
0		2	Cylinder Frame, Right	31-258	✓		
0		1	" " , Left	31-258	✓		
0		1	" " Support	31-259	✓		
			Group 37—Drawgear				
0		1	Draft Gear Frame, Right Front	37-321	✓		
0		1	" " " , Left "	37-320	✓		
0		1	Draft Gear Frame, Right Rear	37-405	✓		
0		1	" " " , Left "	37-406	✓		
0		8	" " Friction Plates	37-89	✓		
0		2	" " Sliding Bar, Right	37-94	✓		
0		2	" " Sliding Bar, Left	37-95	✓		
		—	" " Connecting Bar, Front				
0		1	" " ~~Connecting Bar, Rear~~ Frame Spreader	37-92	✓		
0		2	" " Yoke Blocks	37-93	✓		
0		2	Couplers	37-14	✓		
0		2	" Knuckles	37-11	✓		
0		2	" Lock	37-15	✓		
0		1	" Knuckles ~~Lifter~~	37-4	✓		

ANNEALED STEEL CASTINGS

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
			Group 37—Drawgear Con't.				
0		2	Drawheads	37-51	✓		
		—	" Carrier Links				
0		2	" Guides	37-53	✓		
		—	Brace Foot, Bolster				
		—	" " , Drawhead				
		—	Shakle Bar Pocket, Eng. Frame				
		—	" " " , Tender Frame				
		?	" " Brace Foot	X X			
			Group 39—Eccentrics				
		—	Eccentric Strap—Top Half				
		—	" " —Bottom Half				
			Group 44—Exhaust Pipe				
0		1	Exhaust Pipe ~~Gland~~ FLANGE	44-695 / 44-696	✓ ✓		
0		3	" " ELBOW	44-694	✓		
			Group 48—Frame & Details				
			Boiler Side Pad				
			" " "				
0		2	Brace—Frame SPREADER	48-712			
			" —Front End Timber				
			" —Rear " "				
0		2	Center Plate	48-684	✓		
		—	Deck Plate				
0		1	End Casting New	48-711	✓		
		—	Expansion Plate Bracket				
0		1	Furnace Bearer ~~Right~~ FRONT	48-664	✓		
0		1	" " ~~Left~~ REAR	48-662	✓		
0		2	" " FILL BLOCKS	48-663	✓		
		—	Side Bearing				
			Truss Pads—Right				
			" " —Left				
			" Rod Saddle				
			Group 58—Link Motion				
0		3	Link	58-7	✓		
		—	" Hanger Fulcrum				
			Group 66—Plugs				
		—	Washout Plug Cap				
			Group 68—Reverse Lever				
		—	Reverse Lever Arm				
		—	" " Fulcrum Bracket				
		—	Quadrant Bracket				
			Group 71—Running Boards				
		—	Running Board Bracket				

ANNEALED STEEL CASTINGS

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
			Group 74—Shafts				
0		1	Coupling Ring No. 1—Whole	74-16	✓		
0		2	" " No. 1—Halves	74-17	✓		
0		1	" " ~~No. 2—Whole~~ CRANK FRONT	74-505	✓		
0		2	" " No. 2—Halves	74-506	✓		
0		2	" " ~~No. 3—Whole~~ CRANK & L.S. #2	74-505	✓		
0		4	" " ~~No. 3~~—Halves	74-506	✓		
0		2	" " ~~No. 4—Whole~~ L.S. REAR	74-16	✓		
0		4	" " ~~No. 4~~—Halves	74-17	✓		
0		1	" Sleeve No. 1 FRONT	74-641	✓		
0		1	" " No. 2 CENTER	74-641	✓		
0		1	" " No. 3 REAR	74-315	✓		
			" " No. 4				
			" Square Shaft No. 1				
			" " " No. 2				
			" " " No. 3				
			" " " No. 4				
		—	Collars—Line Shaft No. 1—Core				
0		2	" — " " No. 1— "	74-~~323~~ 776	✓		
		—	" — " " No. 2— "				
0		2	" — " " No. 2— "	74-~~323~~ 776	✓		
		—	" — " " No. 3— "				
0		1	" — " " No. 3— "	74-~~323~~ 776	✓		
		—	" — " " No. 4— "				
		—	" — " " No. 4— "				
0		1	" — " " Rear — "	74-~~323~~ 776	✓		
			COUPLINGS				
0		1	Crank—Front 5" ~~Str.~~ Taper Core	74-636	✓		
0		1	" —Rear 5" ~~Str.~~ Taper "	74-636	✓		
0		1	Line Shaft—Front "	74-27	✓		
0		1	" " No. 2—Front "	74-631	✓		
0		1	" " No. 2—Rear "	74-27	✓		
		—	" " No. 3—Front "				
		—	" " No. 3—Rear "				
0		1	" " Rear "	74-27	✓		
0		6	Gear Rims (H. C. Steel to Lima Specification L-2)	74-892	✓		
0		6	Pinions Core (H. C. Steel to Lima Specification L-2)	74-893	✓		
		—	" " (H. C. Steel to Lima Specification L-2)				
		—	" " (H. C. Steel to Lima Specification L-2)				
			Group 75—Smoke Box & Stack				
0		2	Smoke Box Brace Pad	75-10	✓		
			Group 78—St. Ga., S. Val.& Tur.				
			Safety Valve Turret				
			Group 79—Steam Pipes				
0		1	Steam Pipe ELBOW	79-900	✓		
0		2	" " "	79-901	✓		
			Group 85—Tender Frame				
0	—	1	Center Plate	85-109	✓		
0		1	End Casting	85-110	✓		
			" Timber Brace				
			Side Bearing				

ANNEALED STEEL CASTINGS

Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Pattern Number	Pattern Check	Pur. Order No.	Pur. Order Date
			Group 88—Tender Tank				
		—	Tank Lug				
			Group 91—Throttle				
0		1	Throttle Lever Quadrant	91-21	✓		
			Group 92—Tools				
		—	Swab Cup Wrench				
0		1	Wrecking Frog—~~Right~~ INSIDE	~~93~~ 92-66			
0		1	" " —~~Left~~ OUTSIDE	~~93~~ 92-67			
			Group 93—Truck & Details				
		—	Bolster End Casting—Right				
		—	" " " —Left				
0		6	" Guides	93-616	✓		
0		3	Center Plate	93-133	✓		
		—	Side Bearings				
		—	Truck Column—Right				
		—	" " —Left				
0		2	Truck Cross Tie Bar	93-612	✓		
		—	" " " "				
		—	" " " "				
0		3	Truck Frame—Right	93-608	✓		
0		3	" " —Left	93-609	✓		
		—	" " Splice				
0		6	Truck Box—Right Front Truck	93-614	✓		
			" " — " No. 2 "				
			" " — " No. 3 "				
			" " — " Rear "				
0		6	" " Cap—Right Front Truck	93-615	✓		
			" " " — " No. 2 "				
			" " " — " No. 3 "				
			" " " — " Rear "				
0		6	Truck Pedestal	93-613	✓		
0		6	" " Cap	93-342	✓		
0		6	" " Inside Box	93-290	✓		
		—	Journal Box Wedge				
			Group 94—Valves				
		—	Valve Stem Crosshead				
			Group 95—Wheels & Tires				
		—	Wheel Center				
			Group 96—Whistle & Rigging				
		—	Whistle Lever				

MALLEABLE CASTINGS

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE
			Group 10—Ash Pan				
			Group 12—Bell				
		—	Bell Crank				
		—	" Tongue				
			Group 18—Brackets				
			Group 20—Brake Equipment				
		—	Brake Heads				
		—	" Valve Handle				
			Group 23—Cab Details				
			Cab Window Clamp Screw				
			" Storm Window Rod Bracket				
			" Ventilator Clamp				
			" " "				
			" " " Brackets				
			" " " Handle				
			" " " Rod Bracket				
			" " Lift Handle				
			Group 26—Cocks & Valves				
			Cylinder Cock Body				
			" " Cap				
			" " Lever				
			Oil Cock Body				
			" " Cap				
			" " Plug				
			Group 27—Cocks & Val. (Gauge, Water & Spec.)				
		—	Gauge Cock Handle				
			Group 28—Cock Rigging				
		—	Cylinder Cock Rod Lever				
			Group 37—Drawgear				
		—	Coupler Clevis				
		—	" Link				
		—	Uncoupling Shaft Bracket				
			Group 53—Hand Rail & Steps				
		—	Handrail Bracket				
		—	" Bumper Post				
		—	End Timber Handle Bracket				
			Group 54—Headlight & Lamps				
		—	Marker Lamp Bracket				
			Group 55—Inj. & Feed Water				
			Hose Connection				
			" " Nuts				
			" " "				
			" " Nipple				

MALLEABLE CASTINGS

Check Column	Date Added Information Draft Room	Number Required	Name of Detail	Pattern Number	Pattern Check	Pur. Order No.	Pur. Order Date
			Group 57—Lagging & Jacket				
0		48	Jacket Band Lugs	57-28			
0		8	Washout Plug Casing	57-4			
			Group 59—Lubrication				
		—	Grease Cup				
		—	Oil Cup				
		—	Oil Cup Base				
			Group 63—Pipe Fittings				
		—	Blower Pipe Elbow				
		—	“ “ Flange				
			Group 68—Reverse Lever				
		—	Reverse Lever Latch Handle				
		—	“ “ “ Guide				
			Group 73—Sand Box				
		—	Sand Box Lever				
			Group 75—Smoke Box & Stack				
		—	Smoke Box Door Buttons				
0		1	“ “ “ Hinge	75-25	for Future Make C.S.		
0		1	“ “ “ “	75-26	“ “ “ “		
			Group 78-St. Ga., S. Val. & Tur.				
		—	Turret Valve Handle				
			Group 82—Tank Valve				
		—	Tank Cock Body				
			“ “ Cap				
			“ “ Plug				
			Group 91—Throttle & Dry Pipe				
		—	Throttle Lever Latch Handle				
			“ “ “ Guide				
			“ “ Quadrant				
			Group 92—Tools				
			Group 93—Truck & Details				
			Group 96—Whistle				
		—	Whistle Lever				

MALLEABLE CASTINGS

CHECK COLUMN	DATE ADDED INFORMATION DRAFT ROOM	NUMBER REQUIRED	NAME OF DETAIL	PATTERN NUMBER	PATTERN CHECK	PUR. ORDER No.	PUR. ORDER DATE

CLASS-50-2

LOCOMOTIVE C.O.	ENG. No	GAUGE	PURCHASER	LOCATION	FRAME & TRUCK	FUEL	BOILER	BRAKE	CAB	ORDER REC'D.	ORDER SHIPPED	
212	3035	56½"	WAUSAU SOUTHERN LBR. CO.	MISS.	I-BEAM C.S.	COAL	SATUR.	STEAM	WOOD S.ENT.		6-3-'19.	C.I. TAPER
215	3037	56½"	BROWN LUMBER CO.	LOUISIANA	I-BEAM W.I.	COAL	SATUR.	STEAM	WOOD S.ENT.		6-30-'19.	C.I. TAPER
229	3052	56½"	BIG CREEK LOGGING CO	OREGON	I-BEAM W.I.	OIL	SATUR.	STEAM	STEEL S.ENT.		2-28-'20.	C.I. TAPER
231	3054	36"	UINTAH RAILWAY	UTAH	I-BEAM W.I.	COAL	SATUR.	AIR 1-9½ STEAM	WOOD S.ENT.		2-3-'20.	C.I. TAPER
232	3055	56½"	LAKE RILEY LBR. CO.	WASH.	I-BEAM W.I.	COAL	SATUR.	AIR 1-9½ STEAM	WOOD S.ENT.		2-6-'20.	C.I. TAPER
243	3066	56½"	WOODSTOCK LBR. CO.	NEW HAMPSHIRE	I-BEAM W.I.	COAL	SATUR.	AIR FOR TRAIN 1-9½ STEAM	WOOD SIDE	9-26-'19.	12-23-'20.	C.I. TAPER
245	3068	56½"	KIERMAN FLORA LBR. CO.	OREGON	I-BEAM W.I.	OIL	SATUR.	STEAM	WOOD SIDE	11-19-'19.	3-9-'20.	C.I. TAPER
272	3097	56½"	GRANT TIMBER CO.	LOUISIANA	I-BEAM W.I.	WOOD	SATUR.	AIR FOR TRAIN 1-9½ STEAM	WOOD SIDE	1-7-'20.	6-30-'20	R.&H
279	3104	56½"	J.M. GRIFFIN	MISS.	I-BEAM W.I.	WOOD	SATUR.	STEAM	WOOD SIDE	1-21-'20.	5-24-'20.	R.&H.
281	3106	56½"	PHEONIX UTILITY CO.	PENN.	I-BEAM W.I.	COAL	SATUR.	AIR-ET-6 1-9½ STEAM	WOOD SIDE	1-28-'20.	10-29-'20.	C.I. TAPER
287	3112	56½"	KELLY ISLAND LIME & TRANS. CO.	OHIO	GIRDER C.S.	COAL	SUPER.	STEAM	STEEL SIDE		9-25-'20.	C.I. TAPER
292	3117	56½"	MARATHON LUMBER CO.	WIS.	GIRDER C.S.	COAL	SATUR.	STEAM	WOOD SIDE		9-13-'20.	C.I. TAPER
307	3134	56½"	LIMA LOCO. WORKS	OHIO	GIRDER W.I.	COAL	SATUR.	AIR-ET-6 1-9½	STEEL SIDE	4-16-'20.		C.I. TAPER
310	3124	56½"	MARATHON LBR. CO.	MISS.	GIRDER C.S.	COAL	SATUR.	STEAM	WOOD SIDE		8-27-'20.	C.I. TAPER
325	3152	56½"	SILVER LAKE RY. & LBR. CO.	WASHINGTON	GIRDER W.I.	WOOD	SATUR.	STEAM	STEEL SIDE	4-17-'20.	2-21-'21.	R.&H.
327	3154	56½"	FORKED LEAF WHITE OAK LBR. CO.	MISSOURI	GIRDER C.S.	COAL	SATUR.	AIR-ET-6 1-9½ STEAM	WOOD SIDE	10-26-'20.	4-19-'21.	C.I. TAPER
350	3178	56½"	HOFIUS-A.J. DWYER	OREGON	GIRDER W.I.	OIL	SATUR.	AIR-ET 1-9½ STEAM	WOOD SIDE	1-31-'22.	3-2-'22.	C.I. TAPER
356	3186	56½"	KINZEL LBR. CO.	WISCONSIN	GIRDER W.I.	COAL	SATUR.	AIR FOR TRAIN 1-9½ STEAM	STEEL SIDE	6-12-'22	7-28-'22	C.I. TAPER
360	3190	56½"	THOMAS HALL LBR. CO.	TENN.	GIRDER C.S.	COAL	SATUR.	AIR-ET-6 1-9½ STEAM	STEEL SIDE	8-3-'22.	9-20-'22.	C.I. TAPER
361	3191	56½"	DAVIDSON HICK & GREEN CO.	TENN.	I-BEAM W.I.	COAL	SATUR.	AIR FOR TRAIN 1-9½ STEAM	WOOD SIDE	8-5-'22.	9-14-'22.	C.I. TAPER
362	3192	56½"	ALOHA LBR. CO. (HOFIUS)	WASH.	GIRDER C.S.	OIL	SATUR.	AIR-ET 1-9½ STEAM	STEEL SIDE	8-10-'22.	9-27-'22.	C.I. TAPER
363	3193	36"	M. KELVEY BROTHERS	PENN.	GIRDER C.S.	COAL	SUPER.	AIR FOR TRAIN 1-9½ STEAM	STEEL SIDE	8-14-'22.	10-27-'22.	R.&H.

Pegn

THE FOLLOWING RECORD TO BE MADE FOR EACH
SHAY LOCOMOTIVE AND SENT TO SHAY DRAWING ROOM - MAIL NO.70

Order No. 472 Engine No. 3312 Class 70-3

Lubricator, - Make Nathan Style 5 feed 1918 type No. 155722

$1\frac{7}{4}$	$1\frac{3}{4}$	$1\frac{6}{4}$
53	60	$65\frac{1}{2}$
61 | 166	61 | 188	61 | 206
28	31	34
		28
		62
		54
		116

60 pcs $1\frac{3}{4} \times 6 \times 42$

120 " $1\frac{1}{4} \times 6 \times 42$

20 " $1 \times 6 \times 30$

32 " $\frac{7}{8} \times 3 \times 24$

472 lagging.

Superheater damper
Steam pipe 5/8 X 3' 5" Copper pipe ✓

THE FOLLOWING RECORD TO BE MADE FOR EACH
SHAY LOCOMOTIVE AND SENT TO SHAY DRAWING ROOM - MAIL NO.70

Order No. 472 Engine No. 3312 Class 70-3

Lubricator, - Make Nathan Style 5 feed 1918 type No. 15522

Injector - Make, Size and Type, Right Nathan type 88 Left Nathan type 88

Steam Gauge - Make Ashcroft Size 4 1/2

Steam Valve to Lubricator - Make Nathan Size 1" Style Angle

" " " Blower - Make Crane Size 1" Style 1813

" " " Injector- Make Crane Size 1 1/2" Style 1805

" " " Air Pump -Make Crane Size 1 1/4 Style 1811

" " " Steam brake - Make Crane Size 3/4 Style 1813

" " " Generator - Make Crane Size 1/2 Style 1811

" " " Syphon - Make Crane Size 1 1/2 Style 1811

Blow Off Cock - Make Crane Size 1 1/2"

Tumbling Shaft ball, coupling center 23 1/2" ctrs

Link pin collar thickness, Rear 1/8" Center 1/4" Front 1/8"

Valve travel in full gear,	Rear Cyl.	Center Cyl.	Front Cyl.
Forward Motion	4 1/16	4 1/16	4 1/16
Backward "	4 1/16	4 1/16	4 1/16
Lead in Full Gear (Forward "	1/32	1/32	1/32
(Backward "	1/32	1/32	1/32

Feed pipe hose, size & length 2 1/2 X 4' 6"

Size & length of oil pipe to cylinders, Rear 1/2 X 7' 3" Center 1/2 X 7' 3" Front 1/2 X 9'

Size & length of oil pipe ot steam chest, Rear 3/8 X 13" Center 3/8 X 15" Front 3/8 X 80"

Size & length of oil pipe to air pump 1/2" X 52"

Size & length of oil pipe to steam brake 1/2" X 24"

Size & length of injector steam pipe, Right 1 3/4" X 17" Left 1 3/4" X 21"

Size & length of injector delivery pipe (when copper only) Right Iron Left Iron

Size & length of steam gauge steam pipe 3/8 X 48"

Size & length of lubricator steam pipe 1" X 50"

Size & length of pipe from main reservoir to air gauge 3/8" X 24"

Size & length of pipe from equalizing reservoir to air gauge 3/8" X 33"

Size & length of pipe from brake valve to air gauge 3/8 X 58"
Size & length of pipe from brake cylinder to air gauge 3/8 X 68"
Size & length of pipe from main reservoir to governor 3/8 X 8' 6"
Size & length of pipe from brake valve to governor 3/8 X 8' 6"
Size & length of pipe from auto. brake valve to tee 1/2" X 8"
Size & length of pipe from independent brake valve to tee 1/2" X 12"
Size & length of pipe from tee to distributing valve 1/2" X 65"
Size & length of release pipe from independent brake valve to tee 1/2" X 92"
Size & length of pipe between brake valves 1/2" X 16"
Size & length of exhaust pipe 7" X 12'
Size & length of exhaust pipe nipple None
Size & length of lubricator drain 3/8 X 24"

Sand Hose - Front (Hand None
(Air 1" X 32"
" " Rear (Hand None
(Air 1" X 32"

Signed O.K.

Date

Superheater damper
Steam pipe 5/8 X 3' 5" Copper pipe